Preparation of the Operative Site

SSG CATES

Terminal Learning Objectives

CONDITION: Given the appropriate information

ACTION: Prepare the operative site for surgery

STANDARD: IAW cited references.

Preparation of the Operative Site

Condition: Given the appropriate information

Action: Identify the definition, rationale, and alternatives for hair removal

Standard: IAW AORN and. Berry and Kohn's.

Preparation of the Operative Site Continued

- Definition--Removal of hair form the surgical site.
- Rationale--Hair is removed from surgical site because it harbors bacteria; whether or not shave takes place depends upon the amount of hair, location of incision, type of procedure, and surgeon preference. Idea is to reduce infection risk.

Preparation of the Operative Site Continued

- Hair removal criteria.

a. Ask patient if they are allergic to a antiseptic agents before beginning shave.

b. Physician's orders will dictate what and how much is shaved.

Preparation of the Operative Site Continued

- Eyebrows--are usually not shaved.

- Head-- do not throw away hair; it belongs to the patient and goes with patient.

- Children are generally not shaved.

Hair Removal Criteria Continued

c. Examine skin for any abnormal skin for any abnormal skin conditions; report rashes or lesions.

d. Use care to prevent scratches, cuts, or nicks while shaving. Skin injury may increase chance of infection.

e. If using a razor, shave in the direction of hair growth.

Hair Removal Criteria Continued

f. Wet shaving is preferred over dry shave.

g. Shave as close to time of surgery as possible.

Alternatives to Shaving

a. Recommended by Association of Operating Room Nurse (AORN) if shaving is required.

b. Less damaging to skin than shaving with a razor.

c. Types:

- Clippers (electric or battery operated).

Alternatives to Shaving

-- Disposable clipper heads are preferred.

-- If reusable head is used, it must be disinfected between patients.

Alternatives to Shaving Continued

Depilatory agents

-- Tested on a small patch of patients skin to make sure they are not allergic.

-- Hair removal is done before patient comes to operating room.

Preparation for the Surgical Prep

Condition: Given the appropriate information

Action: Identify the definition, rationale, and guidelines of the surgical prep

Standard: IAW Berry and Kohn's and Standard Operating Procedures.

Preparation for the Surgical Prep Continued

- Definition--Mechanical cleansing of the operative site using an antiseptic agent.

- Rationale--Reduce the amount of microorganisms and dirt on the skin to reduce the chance of wound infection

Preparation for the Surgical Prep Continued

- General Guidelines.
  a. Follow doctors orders.
  b. Check for allergies to antiseptic agents.
  c. Done after patient is anesthetized, positioned on the operating table, and prior to draping.
  d. Keep patient covered as much as possible.
  e. Area of prep is from incision line to the periphery (edge of prep). IAW local SOP.

Preparation for the Surgical Prep Continued

Start at incision line and move outward to periphery area, needs to be large enough to accommodate extensions of the incision, additional incisions, and all potential drain sites.

Use a circular motion to the periphery.

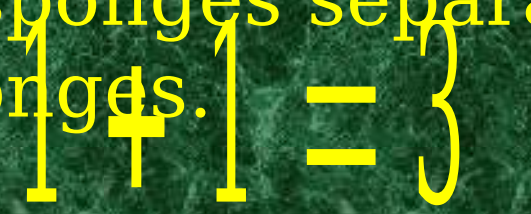
Use friction (unless contraindicated-for example, when tumors are suspected you do not want to cause spreading).

Preparation for the Surgical Prep Continued

Do not retrace prepped areas.

Do not allow solutions to pool under patient. They could cause chemical burns.

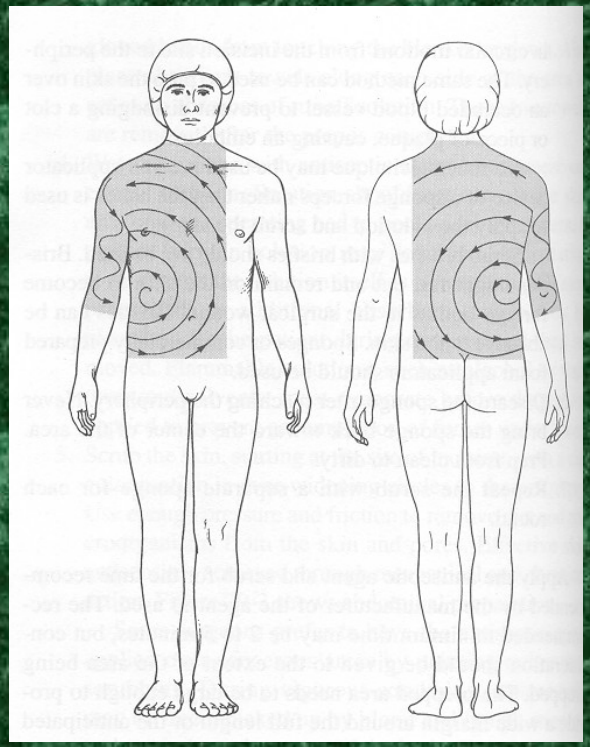
Keep prep sponges separate from counted sponges.



Sample Prep Boundaries for Various Anatomical Areas

1. Thoracoabdominal--Includes axilla, chest, abdomen from neck to crest of ilium. Beyond midline, anteriorly and posteiorly. See Figure 1.

Thoracoabdominal



Sample Prep Boundaries for Various Anatomical Areas Continued

- Abdominal--Nipple line to 3 inches below symphysis pubis, including external genitals and from table side to table side. See Figure 2.

Abdominal

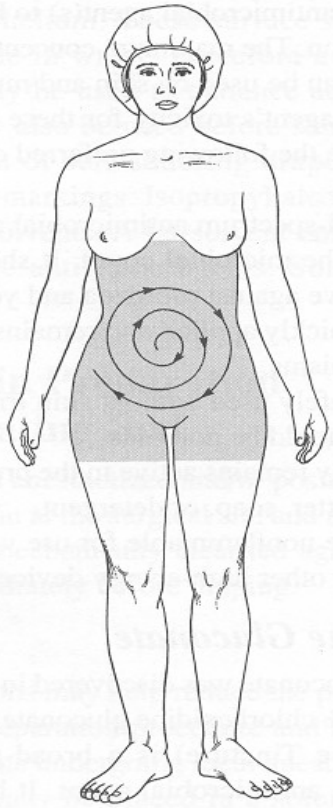


Figure 29-3 Abdominal preparation. Area includes breast line to upper third of thighs, from table line to table line, with patient in supine position. Shaded area shows anatomic area to be prepared. Arrows within area show direction of motion for skin preparation on operating bed.

Sample Prep Boundaries for Various Anatomical Areas Continued

- Perineal and Vaginal--Area includes pubis, vulva, labia, perineum, anus, adjacent areas, including inner aspects of the upper third of thighs. See Figure 3.

Perineal and Vaginal

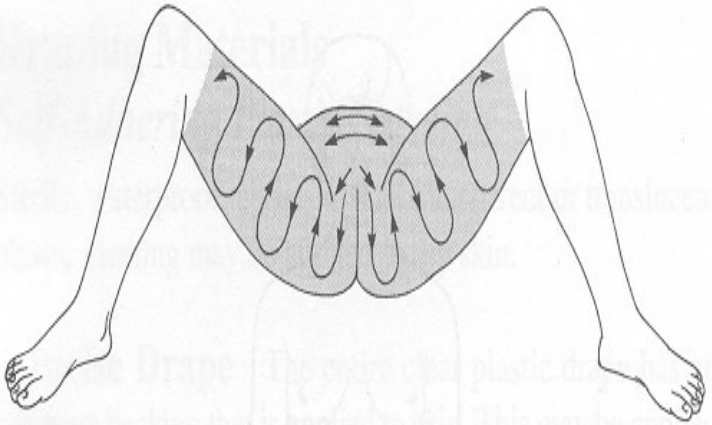
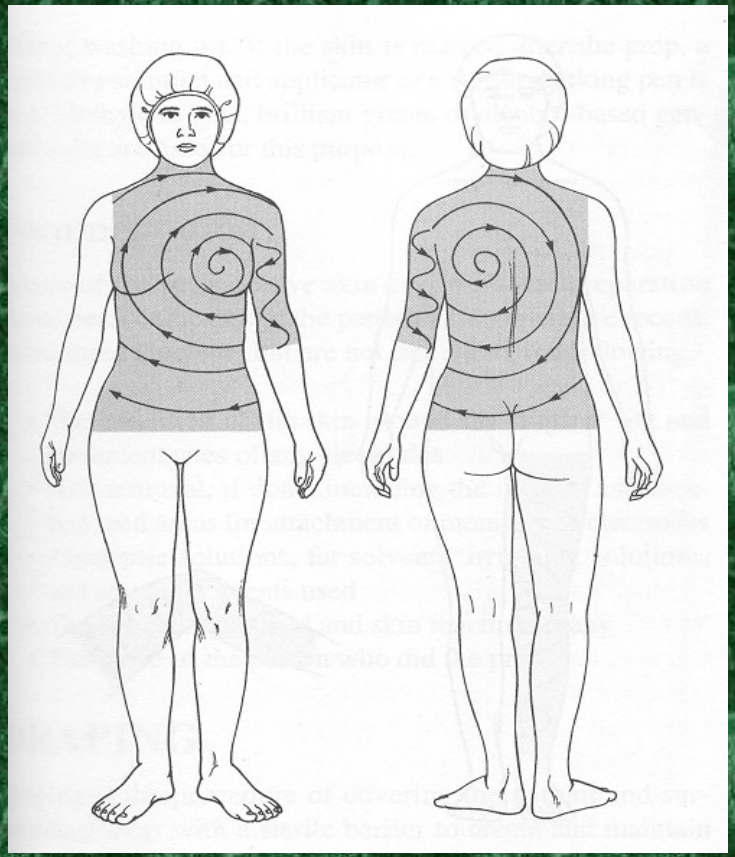


Figure 29-6 Rectoperineal and vaginal preparation. Area includes pubis, vulva, labia, perineum, anus, and adjacent area, including inner aspects of upper third of thighs.

Sample Prep Boundaries for Various Anatomical Areas Continued

4 Breast Removal--Includes shoulder, upper arm down to elbow and chest wall to table line and beyond sternum to opposite shoulder. See Figure 4.

Breast Removal



Sample Prep Boundaries for Various Anatomical Areas Continued

- Extremities--The entire circumference of the arm to the wrist, axilla and over the shoulder. The entire circumference of affected leg and extends from foot to upper part of thigh. See Figure 5.

Extremities

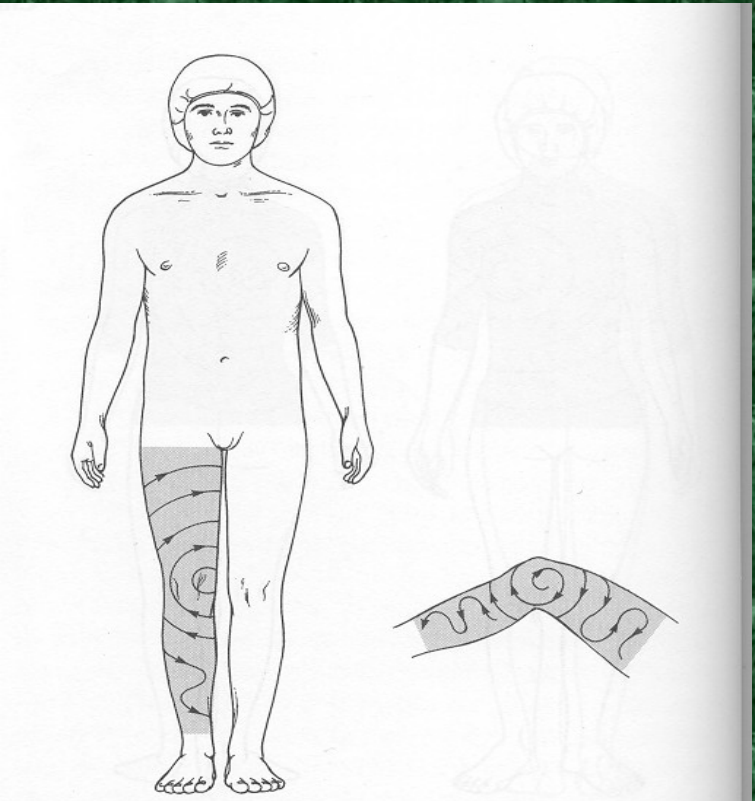
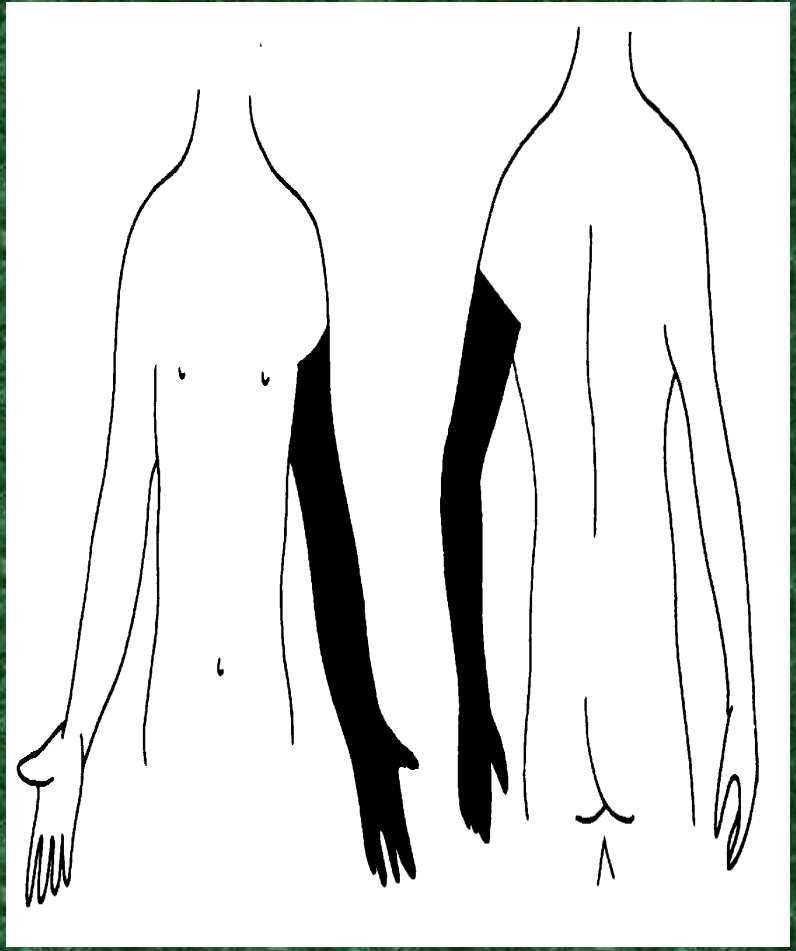


Figure 29-8 Knee and lower leg preparation. Area includes entire circumference of affected leg and extends from foot to upper part of thigh.



Special Considerations

Condition: Given the appropriate information

Action: Choose the special considerations for a surgical skin prep

Standard: IAW Berry and Kohn's.

Special Considerations Continued

- Umbilicus-- Considered more contaminated than surrounding areas.
- Foreign substances-- Use solvent to remove adhesive, grease, tar, etc. before the prep.
- Traumatic wounds-- The intact skin around the wound will be scrubbed first.
  - Irrigation may be part of skin preparation.
  - Area may be packed or covered during scrub.
  - Extent of injury will determine procedure.
- Do not use pressure on tumors, may increase the spreading.

Equipment and Supplies

Condition: Given the appropriate information

Action: Choose the equipment and supplies

needed for a surgical ski[illegible]re

Standard: IAW Berry and

Equipment and Supplies Continued

- Prep Set
  - a. Metal cup
  - b. Solution bowl/basin
  - c. Fluff sponges
  - d. Hand towels
  - e. Sponge forceps

Equipment and Supplies Continued

- Antiseptic agents--Betadine and povidone or hibclens.
- Sterile gloves.
- Warm sterile saline.
- Bed protectors (chux’s-absorbable drapes).

Demonstration of Surgical Prep

Condition: Given a list of procedures and necessary supplies and equipment

Action: Perform the surgical skin prep

Standard: IAW Berry and Kohn's

Demonstration of Surgical Prep Continued

- Ask permission to touch the patient.
- Expose just the area that is to be prepped.
- Adjust OR light and examine the patients skin.
- Place absorbable drapes under patient to prevent the solution from pooling under the patient.
- Pour antiseptic solution.
- Don sterile gloves.
- Place sterile hand towels above and below prep area.

Demonstration of Surgical Prep Continued

- Wet fluff sponges in basin of antiseptic scrub(i.e. betadine), and squeeze out excess.
- Scrub the operative site.
  - -Scrub starts at the site of the incision.
  - -Move in a circular motion of ever-widening circles to the periphery.
  - -Use enough pressure and friction to remove dirt and microorganisms from the skin and pores.

Demonstration of Surgical Prep Continued

-Do not retrace any scrubbed area with the same sponge.

-Discard used prep sponges in the kick bucket.

-Repeat with fresh sponge for each pass.

-Scrub a minimum of 5 minutes or IAW local SOP.

- Blot area dry with sterile hand towel, ensuring that aseptic technique is applied.

Demonstration of Surgical Prep Continued

- Paint the scrub prep area with antiseptic.

  -Use a antiseptic solution (i.e. povidone), to paint the area.

  -Dip folded fluff in sponge forceps into antiseptic solution.

  -Apply to skin in circular motions, starting at incision site and extending to the periphery.

- Remove towels above and below the prepped area and discard chux's.

Demonstration of Surgical Prep Continued

- Discard prep solution.
- Remove gloves.

QUESTIONS?